

# CURRICULUM VITAE

## Thomas Jean Bernard Dewez

### Present address:

Land Management and Natural Hazards  
BRGM  
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### ***Education:***

**BSc:** Geography, University of Liège, Belgium, 1993-1997

**MSc:** Cartography & Remote Sensing, Inter-University degree, Belgium, 1997-1999

**PhD:** Geomatics and Earth Sciences, Brunel University, Uxbridge, UK, 1998-2003

Advisors: I.S. Stewart, J.M.M. Moore and S. Kershaw

Thesis title: Geomorphic markers and digital elevation models as tools for tectonic geomorphology in central Greece

### ***Current rank***

**Feb 2003-Sept 2004:** Post-doctoral research engineer, ENTEC (EU project), BRGM, France

### ***Position held***

**Jan 2001-Feb 2002:** Visiting scientist working with Ross Stein, Earthquake Hazards, USGS, Menlo Park, CA

### ***Areas of interest***

Quantitative geomorphology, tectonic geomorphology, coastal tectonics, DEM extraction, digital photogrammetry, LiDAR, automated geomorphological interpretation of DEM, GIS applications to quantitative geomorphology, earthquake triggering, landscape visualization, public outreach.

### ***Academic Awards***

(i) European Union post-doctoral fellowship (BRGM, France), 2003

(ii) Science Faculty Scholarship (Brunel University, UK), 1998

(iii) Camille Hella Foundation Prize (Univ. Liège, Belgium), 1998

### ***Collaborators:***

Ross Stein (USGS), Wayne Thatcher (USGS), Fred Pollitz (USGS), Shinji Toda (GSJ, Japan), Luca Valensise (INGV, Italy), Daniela Pantosti (INGV, Italy), Keith Richards-Dinger (Naval Weapons Air Base, CA), Iain Stewart (Univ. Glasgow), Steve Kershaw (Brunel University, UK), Alain

Demoulin (Univ. Liège, Belgium), John Moore (Imperial College, UK), Kurt Decker (Univ. Vienna, Austria), Sébastien Carretier (BRGM, France), Guillaume Bertrand (BRGM, France), Blanche Poisson (BRGM, France), Ralph Hirsch (Univ. Vienna, Austria), Szabolcs Rosza (Univ. Karlsruhe, Germany), Gwendolyn Peters (Univ. Karlsruhe, Germany), Roland Billen (Univ. Glasgow, UK).

### ***Miscellaneous***

**Teaching experience:** Undergraduate level statistics, surveying, GIS, photo-interpretation (Brunel); undergraduate level mentoring in GIS and remote sensing (Brunel).

**Field surveying campaigns:** precision leveling (Belgium), land-survey (Belgium, Greece), D-GPS surveys (Greece, Austria) including long period observation campaign (western USA).

**Other field experience:** shallow stratigraphic coring (Greece, UK, France), microgravimetric survey (Belgium)

**Computing:** Windows/Unix/MacOS (proficient in all three); Graphics/web design Illustrator, Photoshop, Dreamweaver (expert level); Mapping (GMT, Surfer); GIS (GRASS-GIS, ArcGIS, ArcView); digital photogrammetry (Erdas Orthobase, Orthomax, Socet Set); remote sensing (Erdas Imagine, ER Mapper); graphics animations/visualization (Flash, Virtual GIS, ArcScene); shell-scripting, Pascal, VBA programming.

**Languages:** French, English, Dutch, basic Italian, Greek and German.

### ***Selected bibliography***

- [1] Lambert, J., Winter, T., **Dewez, T.** & Sabourault, P. 2004. Revisiting the Swiss 1356 Basel earthquake: uncertainties on the area of maximum damage. *Quaternary Science Reviews* **in press**.
- [2] **Dewez, T.** & Stewart, I. S. in prep. for 2004. Coastal terraces as geomorphic markers of fault activity: an automated approach from the northern Gulf of Evvia, central Greece. *Journal of Geophysical Research (Earth Processes)*.
- [3] Stein, R. S., Richards-Dinger, K. & **Dewez, T.** in prep. An animation of stress triggering and seismic rate change in Southern California between 1975 and 2002..
- [4] Vetterlein, J., Roberts, G. P. & **Dewez, T.** in prep. Active faulting on Mars. *JGR*.
- [5] Cundy, A. B., Kortekaas, S., **Dewez, T.**, Stewart, I. S., Collins, P. E. F., Croudace, I. W., Maroukian, H., Papanastassiou, D., Gaki-Papanastassiou, P., Pavlopoulos, K. & Dawson, A. 2000. Coastal wetlands as recorders of earthquake subsidence in the Aegean: a case study from the 1894 Gulf of Atalanti earthquakes, central Greece. *Marine Geology* **170**, 3-26.
- [6] **Dewez, T.** 1998. Neotectonic activity in the region of Huy (central Belgium) [in French]. *Zeitschrift für Geomorphologie* **42**, 497-506.
- [7] **Dewez, T.** 1998. Neotectonic influences on the geomorphology of the region of Huy: the Leumont meander and the Butte of Ombret [in French]. *Bulletin de la Société Géographique de Liège* **35**, 19-27.